A Zachary Trimble
Assistant Professor
Department of Mechanical Engineering
Holmes Hall 304
2540 Dole Street
Honolulu, HI 96822
+1(808)956-7597
atrimble@hawaii.edu

Dr. Editor

Editor
Journal of xxx

20 February 2019

Dear Dr. Editor

I am writing as the corresponding author of a manuscript entitled "xxx" that I and three other authors submitted to the *Journal of xx* for review.

The paper describes a nanocomposite for use in Fused Filament Fabrication (FFF) additive manufacturing by inclusion of small amounts, less than 0.06 weight percent, graphene oxide (GO) into acrylonitrile butadiene styrene (ABS) thermoplastic. Using Type I dog-bone samples with a 7-mm thickness and a testing protocol compliant with the ASTM D638-14 standard for tensile properties of plastics[1], the impregnated ABS demonstrated combinations of superior material properties over unprocessed/as-received/control ABS system. The improvement in strain-to-failure, toughness, and fracture strength shows the multifunctionality of the developed 0.06% GO loaded ABS system where a number of mechanical properties are improved lending itself to a number of structural applications. This low level loading of 0.06% GO into ABS system with multifunctional properties improvement is also desirable economically and makes it a viable approach for the adoption by the industry

The paper directly addresses the "Aims and Scope" of the Journal of xx and thus will be of direct interest to your readers. Furthermore, due to the expanding use of additive manufacturing, the paper will also be of interest to a broad readership.

All correspondence pertaining to this manuscript should be addressed to me, Zac Trimble, at the University of Hawaii address provided above or by email (atrimble@hawaii.edu). Thank you for your consideration of our work.

Sincerely,

A Zachary Trimble

[1] ASTM International. Standard test method for tensile properties of plastics. ASTM Int. 2003; 8:46–58.